

Math

Common Core State Standards

High School Algebra 1

Equations, Functions, Sequences, Polynomials, Data Analysis, and More!

ALGEBRAIC EXPRESSIONS & PROPERTIES

A **variable** is a symbol that is used to represent an unknown quantity. An **algebraic expression** is a mathematical expression that contains one or more variables, one or more numbers, and one or more arithmetic operations.

Writing Expressions

Verbal expressions can be translated into algebraic expressions.

Verbal Expression	Algebraic Expression
a number decreased by 15	$n - 15$
8 less than 3 times a number	$3n - 8$
the quotient of a number and 2 plus 5 times the number	$\frac{n}{2} + 5n$
6 more than the cube of a number	$n^3 + 6$
a number increased by 3, quantity squared, divided by 5	$\frac{(n+3)^2}{5}$

Order of Operations

The order of operations is a set of rules that determine which operations to perform first when evaluating a numerical expression.

1. Evaluate within grouping symbols.
2. Evaluate all powers.
3. Multiply and divide from left to right.
4. Add and subtract from left to right.

Properties of Real Numbers

For real numbers a , b , and c , the following properties are true.

Property	Expression
Commutative Property of Addition	$a + b = b + a$
Commutative Property of Multiplication	$a \cdot b = b \cdot a$
Associative Property of Addition	$a + (b + c) = (a + b) + c$
Associative Property of Multiplication	$a \cdot (b \cdot c) = (a \cdot b) \cdot c$
Distributive Property	$a \cdot (b + c) = a \cdot b + a \cdot c$
Additive Identity Property	$a + 0 = a$
Additive Inverse Property	$a + (-a) = 0$
Multiplicative Inverse Property	$a \cdot \left(\frac{1}{a}\right) = 1, a \neq 0$
Multiplicative Property of Zero	$a \cdot 0 = 0$

Properties of Equality & Substitution

For real numbers a , b , and c , the following properties are true.

Property	Description	Symbolic
Reflexive Property	A number or quantity is equal to itself.	$a = a$
Symmetric Property	If a quantity is equal to another quantity, then the second quantity is equal to the first quantity.	If $a = b$, then $b = a$.
Transitive Property	If a quantity equals a second quantity and the second quantity equals a third quantity, then the first quantity equals the third quantity.	If $a = b$ and $b = c$, then $a = c$.
Substitution Property	If two quantities are equal, then one quantity may be substituted for the other in an expression.	If $a = b$, then b can be substituted for a in an expression, and vice versa.

Parts of an Expression

A **term** is a number, variable, or the product of numbers and variables in an expression. Like terms are terms that have the same variables raised to the same powers. Two quantities that are being multiplied in an expression are called **factors**. The **coefficient** of a term is the numerical factor of the term. A term that consists of a number and no variables is called a **constant**.

- EX: Identify the terms, factors, and coefficients in the expression $-6n^2 + 4n - 2n$.
1. There are 3 terms: $-6n^2$, $4n$, and $-2n$.
 2. The terms $4n$ and $-2n$ are like terms because they have the same variable raised to the same power.
 3. The factors of the terms are -6 , n , and n for the first term, 4 and n for the second term, and -2 and n for the third term.
 4. The coefficients of the terms are -6 , 4 , and -2 .

EX: To compute annual compound interest, you multiply the principal investment by the quantity of one plus the interest rate, raised to the number of years of compounding. Define quantities and write an expression to model compound interest. Describe the parts of the expression.

1. Define variables.
Let P represent the principal investment, let r represent the interest rate, and let n represent the number of years.
2. Translate the verbal expression into an algebraic expression.
"multiply the principal": P
"quantity of one plus the interest rate, raised to the number of years": $(1 + r)^n$
The expression is $P(1 + r)^n$.
3. Describe the parts of the expression.
The expression contains two factors: P and $(1 + r)^n$. The first factor is the variable P . The second factor contains the variables r and n .

REASONING WITH QUANTITIES

The units of a quantity can help you understand and solve multi-step problems.

Dimensional Analysis

Dimensional analysis is the process of using conversion factors to change from one set of units to another set of units.

EX: Jamie jogged 495 feet in 45 seconds. What was her speed in miles per hour? Write the given information as a ratio. Then use appropriate conversion factors to change units.

$$\frac{495 \cancel{ft}}{45 \cancel{s}} \cdot \frac{1 \cancel{mi}}{5280 \cancel{ft}} \cdot \frac{1 \cancel{hr}}{3600 \cancel{s}} = \frac{1 \cancel{mi}}{480 \cancel{s}}$$

Convert from feet to miles.

$$\frac{1 \cancel{mi}}{480 \cancel{s}} \cdot \frac{60 \cancel{min}}{1 \cancel{min}} \cdot \frac{1 \cancel{hr}}{60 \cancel{min}} = \frac{1 \cancel{mi}}{8 \cancel{min}}$$

Convert from seconds to minutes.

$$\frac{1 \cancel{mi}}{8 \cancel{min}} \cdot \frac{60 \cancel{min}}{1 \cancel{hr}} = \frac{7.5 \cancel{mi}}{1 \cancel{hr}}$$

Convert from minutes to hours.

Jamie's speed was 7.5 miles per hour.

Modeling with Appropriate Units

When modeling with quantities, it is important to choose appropriate units.

Quantity	Common Units
length or distance	millimeter (mm), centimeter (cm), meter (m), kilometer (km), inch (in.), foot (ft), yard (yd), mile (mi)
mass or weight	centigram (cg), gram (g), kilogram (kg), ounce (oz), pound (lb), ton (T)
capacity or volume	milliliter (mL), liter (L), kiloliter (kL), fluid ounce (fl oz), cup (c), pint (pt), quart (qt), gallon (gal), cubic centimeters (cm ³), cubic meters (m ³), cubic inches (in. ³), cubic foot (ft ³), cubic yards (yd ³)
area	square millimeters (mm ²), square centimeters (cm ²), square meters (m ²), square kilometers (km ²), square inches (in. ²), square feet (ft ²), square yards (yd ²), square miles (mi ²)

Accuracy & Precision

Accuracy describes how close a measured value is to the actual value.

EX: Thomas is 5 feet 10.25 inches tall. A measurement of 5 feet 10 inches is more accurate than a measurement of 6 feet when describing his height.

Precision describes the exactness of a measurement and is dependent on the unit of measure. The **precision unit** is the smallest unit on the tool being used to measure. As the units of measurement get smaller, the measurement gets more precise.

EX: A ruler that measures in millimeters is more precise than a ruler that measures in centimeters.

EX: For a scale that gives weight in pounds and ounces, the precision unit is ounces.

Just because a measure is more precise, does not mean it is more accurate.

EX: The actual length of a block of wood is 3 feet. A measurement of 5 feet 3 inches is more precise than a measurement of 4 feet, but it is less accurate than 4 feet which is closer to the actual length of 3 feet.

Math Practice 6: Attend to precision.

When solving real-world problems, it is important to communicate precisely to others. This includes using appropriate units of measure, calculating accurately, and expressing numerical answers with an appropriate degree of precision.



Common Core Math Lessons 9th Grade Algebra

Gary R. Muschla



Common Core Math Lessons 9th Grade Algebra:

Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12 Gary R. Muschla, 2015-04-17 Bring Common Core Math into high school with smart engaging activities Teaching Common Core Math Standards with Hands On Activities Grades 9 12 provides high school teachers with the kind of help they need to begin teaching the standards right away This invaluable guide pairs each standard with one or more classroom ready activities and suggestions for variations and extensions Covering a range of abilities and learning styles these activities bring the Common Core Math Standards to life as students gain fluency in math communication and develop the skillset they need to tackle successively more complex math courses in the coming years Make math anxiety a thing of the past as you show your students how they use math every day of their lives and give them the cognitive tools to approach any math problem with competence and confidence The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers Meeting these standards positions American students more competitively in the global economy and sets them on a track to achieve their dreams This book shows you how to teach the math standards effectively and facilitate a deeper understanding of math concepts and calculations Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left teachers scrambling for aligned lessons and activities If you want to bring new ideas into the classroom today look no further Teaching Common Core Math Standards with Hands On Activities is the high school math teacher s solution for smart engaging Common Core math

Math Common Core Algebra 1 - 9Th Grade BarCharts, Inc, Ken Yablonsky, 2014-05-31 Students parents and teachers can easily find answers related to the specific requirements of The Common Core State Standards for Mathematics This set of expectations and skills need to be mastered to succeed in school college and the real world The QuickStudy series aligns with those standards being implemented in most states to help guide students through their classes and to support parents helping their students succeed Each guide in the series focuses on critical areas of the curriculum and features real world problems examples illustrations and tables to help students excel Common Core Math Activities, Grades 6 - 8 Karise Mace, 2015-01-23 Centered around Common Core State Standards Common Core Math Activities features hands on lab activities that allow students to explore and gain deeper understanding of mathematical concepts From Wrapping Packages to Crime Scene Investigation students will be challenged to pull from previous mathematical knowledge and extend it as they investigate mathematical relationships and concepts This 96 page resource features teacher pages which include materials pacing and helpful tips for each lab Each activity is designed to help develops problem solving skills Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including

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Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2009 In this extensively revised third edition of Teaching Secondary and Middle School Mathematics scholar and classroom teacher Daniel Brahier presents concise current and meaningful descriptions of what it takes to be an effective teacher of mathematics With up to date research classroom tested teaching ideas and a vibrant writing style this book provides essential information on curriculum teaching and assessment issues related to middle secondary mathematics Every chapter includes a contextualizing introduction scenarios and dialogues for student reflection recommended resources for further study and closing activities and discussion questions to cement chapter concepts Jacket

State Curriculum Frameworks in Mathematics and Science Rolf K. Blank, Ellen M. Pechman, 1995 A majority of states are now involved in developing revising and implementing state frameworks in mathematics science and other core subjects The Council of Chief State School Officers completed a one year study of 60 current state curriculum frameworks in mathematics and science The purposes of this study were to define and describe state mathematics and science curriculum frameworks evaluate the role of frameworks in systemic reform and assist states with development of new frameworks Chapters in this report reflect key aspects of the design of the study including 1 a survey of states to identify frameworks and collect information about state context 2 a content analysis of key elements of the frameworks using definitions and categories developed in the study and 3 a qualitative review of specific aspects of recent frameworks by teams of experts The value of frameworks is as follows one half of frameworks link content to teacher professional development frameworks can provide a rationale for use of technology and tools in classrooms frameworks can help explain an approach to systemic reform and frameworks can assist schools in evaluating curriculum organization and resources Appendices include Elements for Analyzing State Curriculum Frameworks Definitions of Categories and Concepts for Conceptual Mapping of State Frameworks Questions for a Qualitative Analysis of State Frameworks in Mathematics and Science and Sample Vignettes Contains 34 references MKR

Teaching Mathematics for the 21st Century Linda Huetinck, Sara N. Munshin, 2008 This third edition of Teaching Mathematics for the 21st Century continues to help teachers let the secret out to open up to their students the wonderful discoveries and challenges of the

pattern making and problem solving aspects of a fascinating subject mathematics The rationale remains the same to enable prospective and current teachers to access and use tools and strategies to effectively teach mathematics to contemporary students Changing demographics knowledge of how people learn and technology all impact the way we educate our young people This edition incorporates lessons and strategies from programs that have proven success in many types of classrooms Many of these examples help students connect mathematics to real life situations and communicate their understanding of the underlying concepts Although technology is constantly being upgraded ways to increase student motivation through its application remains a goal For example since applets can enhance a lesson whether the teacher uses a computer projector a smart board or has students work individually on computers we have identified several sources of mathematics applets that can be correlated to various lessons Research citations and summaries have been updated to reflect current information on teaching and learning For future teachers

Wyoming Statutes Annotated Wyoming,2007 **The Ethos of a Middle School Modular Technology Education Classroom** Craig Rhodes,2002 *The Complete Sourcebook on Children's Software* Children's Software Review,2001-03 5000 critical reviews of CDs videogames smart toys for ages 1 to 16

Mathematics and Science Content Standards and Curriculum Frameworks Rolf K. Blank,State Education Assessment Center (Council of Chief State School Officers),1997 The Council of Chief State School Officers CCSSO collaborating with Policy Studies Associates and a panel of experts in mathematics and science education has completed a study of states curriculum frameworks development and standards setting from 1994 The Council study analyzed the content and quality of state frameworks and standards documents and examined how states are working with local educators on implementation This report describes the changing landscape of framework development and standards setting in the United States and identifies emerging issues for practitioners and policy makers The study was conducted with three kinds of data concerning the current situation of state standards and frameworks in mathematics and science A concept mapping analysis of all state curriculum frameworks and standards documents in mathematics and science was completed In order to identify all current state documents works in progress and dissemination and implementation activities interviews were held with state mathematics and science education specialists With the aggregated information from these sources a report that focuses on current and emerging policy issues pertaining to the implementation of standards based reform in mathematics and science education was developed Contains 27 references Author ASK *Score! Making the Grade* Kaplan Educational Center Staff,Staff of Score,2000-08 Make Learning Fun and More Effective The Making the Grade books published by SCORE are excellent tools for you to help your child build the necessary skills and confidence to perform well in school and meet the tough new academic standards enacted by many states Using SCORE's motivational teaching methods the book includes a thorough review of key 5th and 6th grade subjects hundreds of skill building activities effective strategies to help improve test taking abilities tips on how you can positively affect your child's success in school a special section from the test

preparation experts at Kaplan on helping you child prepare for standardized tests Most important this unique book outlines how you can foster a lifelong love of learning in your child Making the Grade Grades 5 6 lays a solid foundation for future success in school and in life *State Indicators of Science and Mathematics Education* ,1990 **Making Standards Work** Douglas B. Reeves,1998 Provides step by step guidance on how to design and implement standards based performance assessment to make improved teaching and learning a reality in the classroom *Resources in Education* ,1997 *Eighth Grade Common Core Math* John Forlini,2014-12-09 This book is a Common Core course for students taking 8th grade math It can be used prior or during the 8th grade to help students excel It teaches students the material that will be covered in the classrooms that follow Common Core curriculum Besides including a complete Common Core curriculum there are just the right amount of problems and solutions provided to orient the student for this course This book is divided into 16 distinct days for learning A student and teacher can develop their own pace At the conclusion of the 16th day there is a chapter titled Beyond Common Core Math Prep for 9th grade Algebra The book is designed for self teaching by a student or for a teacher or parent working with the student The ideal time to read this material would be the summer before taking the actual 8th grade course However it can be used any time during the 8th grade In addition there is a method revealed in the book that will truly show students how to get the most out of their study time and classroom learning experience towards obtaining an A It s like getting a 10 minute head start in a 5 k race This 5 k race is the basis for the rest of a student s life As mentioned it also includes a final chapter that is titled Beyond Common Core While Common Core does a good job of covering basics and including introduction to geometry and statistics it is weak in introducing algebra Since algebra precedes geometry in high school this section will introduce the student to algebra with emphasis on word problems This book is also valuable for preparing for the SAT and ACT tests It is a solid refresher for these

Common Core Math Lessons 9th Grade Algebra Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Common Core Math Lessons 9th Grade Algebra**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web 5 answers sorted by 20 you would say in the usa although it s worth pointing out that you would say in america not in the america as chrylis pointed out the word the is linked to the word states so to answer the question where was this car made assuming the car was made in detroit one could say any of the following

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 $2 \text{ KClO}_3 \rightarrow 2 \text{ KCl} + 3 \text{ O}_2$
 $2 \text{ NaCl} + \text{F}_2 \rightarrow 2 \text{ NaF} + \text{Cl}_2$
 $2 \text{ H}_2 + \text{O}_2 \rightarrow 2 \text{ H}_2\text{O}$
 $5 \text{ Pb} + 2 \text{ HCl} \rightarrow 2 \text{ H}_2 + \text{PbCl}_2$
 $2 \text{ Al} + 3 \text{ Br}_2 \rightarrow 2 \text{ AlBr}_3$
 $3 \text{ K}_2\text{SO}_4 + 6 \text{ KBr} \rightarrow 1 \text{ Al}_2\text{SO}_4 + 3 \text{ H}_2\text{O}$
 $1 \text{ C}_3\text{H}_8 + 5 \text{ O}_2 \rightarrow 3 \text{ CO}_2 + 4 \text{ H}_2\text{O}$

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 $\text{N}_2 + \text{F}_2 \rightarrow \text{N}_2\text{F}_4$
 $2 \text{ C}_6\text{H}_{10} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
 $3 \text{ HBr} + \text{KHCO}_3 \rightarrow \text{H}_2\text{O} + \text{KBr} + \text{CO}_2$
 $\text{GaBr}_3 + \text{NaBr} \rightarrow \text{SNO}_4$
 $4 \text{ NaSO}_3 + \text{Ga}_2\text{SO}_3 + 3 \text{ N}_2 + 5 \text{ NF}_3 + 2 \text{ N}_2\text{O}_3$ using the equation

from problem 2 above answer the following

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